



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	9 set /251-300 cum	251.09	18	18
10	RMC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	23.31	6	6
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	16 set /601-650 cum	631.18	32	32
12	GSB	SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-02-11-18 Date: 05-12-20

Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 02-12-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 03-12-20

Environmental Conditions during test

Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	--
2	Finess by Air permeability method (m ² /kg, Min)	285.3	225m ² /kg, Min
3	Density (gm/cc)	3.14	--
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-02-11-18 Date: 31-12-20

Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 02-12-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 03-12-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-11-18 Date: 05-12-20
Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.
Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157
Customer's Reference : BBMP/EE/BTP/WO/133/2020-21
Date of Receipt : 02-12-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 02-12-20

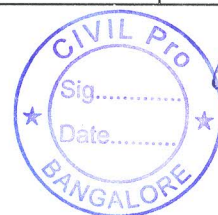
SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-11-18

Date: 05-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.22	—

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-11-18 Date: 04-12-20

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 02-12-20

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 02-12-20

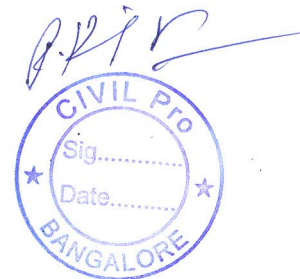
SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2021-02-11-18

Date: 04-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-11-18 Date: 04-12-20

Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 02-12-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 : 1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 02-12-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-11-18

Date: 04-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	--
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2021-02-11-18

Date: 03-12-20

Project Name

Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 02-12-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 02-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-02-11-18 Date: 27-12-20
Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.
Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157
Customer's Reference : BBMP/EE/BTP/VO/133/2020-21
Date of Receipt : 23-12-20
Sample Type /Size : Precast Cover Slab (100mm)
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 23/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.


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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 21/01/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 26-12-20

Customer ID : Culvert Side Wall Concrete, DEE Enclave Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	24/12/2020	21/01/2021	150.73 X 151.10 X 150.44	22776	8.150	534.3	23.5	23.2
2	Culvert Side Wall Concrete	M20	24/12/2020	21/01/2021	150.89 X 149.53 X 149.76	22562	8.488	511.4	22.7	
3	Culvert Side Wall Concrete	M20	24/12/2020	21/01/2021	149.14 X 151.07 X 151.35	22531	8.390	531.0	23.6	

* The results obtained are satisfactory as per standard requirements.

[Signature]

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Lab ID : CP-2021-02-11-18 Date: 31/12/2020

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 26-12-20

Customer ID : Culvert Side Wall Concrete, (AK Colony, Cross Road-2)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	24/12/2020	31/12/2020	149.83 X 150.73 X 149.02	22583	8.288	413.7	18.3	18.6
2	Culvert Side Wall Concrete	M20	24/12/2020	31/12/2020	150.12 X 149.40 X 149.46	22428	8.643	418.8	18.7	
3	Culvert Side Wall Concrete	M20	24/12/2020	31/12/2020	149.48 X 150.03 X 150.34	22427	8.242	420.9	18.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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R KARTHIK RECHAN
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Quality Manager

Page 1/1
****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18

Date: 21/01/2021

Project Name

Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency

M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference

BBMP/EE/BTP/WO/133/2020-21

Date of Receipt

26-12-20

Customer ID

Culvert Side Wall Concrete, (AK Colony, Cross Road-2)

Sample Type /Size

150X150X150 mm

Sample grade/Age

M20 / 28 Days Compressive Strength

Reference to BIS codes

IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test

21/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	24/12/2020	21/01/2021	151.22 X	22620	8.150	533.2	23.6	23.3
					149.58 X					
					151.68					
2	Culvert Side Wall Concrete	M20	24/12/2020	21/01/2021	151.06 X	22774	8.488	512.0	22.5	
					150.76 X					
					149.54					
3	Culvert Side Wall Concrete	M20	24/12/2020	21/01/2021	151.07 X	22844	8.390	543.3	23.8	
					151.21 X					
					149.23					

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 25/01/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 20-01-21

Customer ID : Cement Concrete Pavement, (Maruthi Nagara Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	18/01/2021	25/01/2021	150.18 X 149.72 X 151.14	22485	8.284	562.9	25.0	25.6
2	Cement Concrete Pavement	M30	18/01/2021	25/01/2021	151.74 X 151.50 X 151.99	22988	8.943	619.2	26.9	
3	Cement Concrete Pavement	M30	18/01/2021	25/01/2021	151.86 X 150.57 X 150.24	22865	8.712	568.1	24.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Engineer
Kodigehalli Sub Division
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Page 1/1

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 15/02/2021

Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 20-01-21

Customer ID : Cement Concrete Pavement, (Maruthi Nagara Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	18/01/2021	15/02/2021	149.69 X 150.45 X 151.31	22520	8.693	753.2	33.4	33.1
2	Cement Concrete Pavement	M30	18/01/2021	15/02/2021	149.53 X 150.95 X 150.98	22572	8.754	736.1	32.6	
3	Cement Concrete Pavement	M30	18/01/2021	15/02/2021	149.85 X 151.94 X 149.23	22769	8.405	759.7	33.4	

* The results obtained are satisfactory as per standard requirements.

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Handwritten signature

Assistant Engineer
Roads and Sub Division
BBMP, Bangalore



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 25/01/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 20-01-21

Customer ID : Cement Concrete Pavement, (CROSS ROAD)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	18/01/2021	25/01/2021	149.76 X 150.44 X 149.52	22529	8.284	578.0	25.7	25.6
2	Cement Concrete Pavement	M30	18/01/2021	25/01/2021	151.72 X 151.47 X 150.89	22981	8.943	612.8	26.7	
3	Cement Concrete Pavement	M30	18/01/2021	25/01/2021	150.99 X 151.56 X 149.42	22884	8.712	562.0	24.6	

* The results obtained are satisfactory as per standard requirements.

Authorized Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 15/02/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 20-01-21

Customer ID : Cement Concrete Pavement, (CROSS ROAD)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	18/01/2021	15/02/2021	151.97 X 151.20 X 149.70	22977	8.693	760.1	33.1	33.2
2	Cement Concrete Pavement	M30	18/01/2021	15/02/2021	151.94 X 151.99 X 151.49	23094	8.754	757.9	32.8	
3	Cement Concrete Pavement	M30	18/01/2021	15/02/2021	149.14 X 151.90 X 151.95	22654	8.405	762.6	33.7	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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Page 1/1

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 27/01/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 22-01-21

Customer ID : Cement Concrete Pavement, (Maruthinagara 2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	20/01/2021	27/01/2021	151.72 X 151.22 X 149.07	22943	8.284	589.5	25.7	25.6
2	Cement Concrete Pavement	M30	20/01/2021	27/01/2021	151.79 X 150.02 X 150.67	22771	8.943	608.4	26.7	
3	Cement Concrete Pavement	M30	20/01/2021	27/01/2021	151.21 X 151.54 X 151.93	22914	8.712	558.6	24.4	

* The results obtained are satisfactory as per standard requirements.

[Signature]

[Signature]
Assistant Executive Engineer
Kodigehalli Sub Division
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****End of Report****



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 17/02/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 22-01-21

Customer ID : Cement Concrete Pavement, (Maruthinagara 2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	20/01/2021	17/02/2021	151.78 X 149.44 X 151.99	22682	8.693	749.7	33.1	33.1
2	Cement Concrete Pavement	M30	20/01/2021	17/02/2021	151.53 X 150.89 X 151.65	22865	8.754	753.7	33.0	
3	Cement Concrete Pavement	M30	20/01/2021	17/02/2021	149.16 X 151.82 X 151.58	22646	8.405	757.1	33.4	

* The results obtained are satisfactory as per standard requirements.

[Signature]

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 27/01/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 22-01-21

Customer ID : Cement Concrete Pavement, (WOW Kids Opp Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	20/01/2021	27/01/2021	151.75 X 151.62 X 151.83	23008	8.284	587.9	25.6	25.4
2	Cement Concrete Pavement, (WOW Kids Opp Road)	M30	20/01/2021	27/01/2021	151.55 X 149.07 X 150.21	22591	8.943	599.4	26.5	
3	Cement Concrete Pavement, (WOW Kids Opp Road)	M30	20/01/2021	27/01/2021	151.81 X 150.30 X 150.40	22817	8.712	550.9	24.1	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 17/02/2021

Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 22-01-21

Customer ID : Cement Concrete Pavement, (WOW Kids Opp Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	20/01/2021	17/02/2021	150.95 X 149.04 X 150.67	22498	8.693	752.3	33.4	33.0
2	Cement Concrete Pavement	M30	20/01/2021	17/02/2021	151.21 X 151.48 X 149.57	22905	8.754	735.5	32.1	
3	Cement Concrete Pavement	M30	20/01/2021	17/02/2021	150.39 X 150.86 X 149.44	22687	8.405	758.8	33.4	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 Date: 25/02/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 30-01-21

Customer ID : Cement Concrete Pavement, (Bhajanemane Opposite Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	150.68 X 150.77 X 151.66	22717	8.693	764.5	33.7	33.3
2	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	149.56 X 149.71 X 151.04	22391	8.754	719.9	32.1	
3	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	149.48 X 149.15 X 149.22	22295	8.405	757.8	34.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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BBMP, Bangalore

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****End of Report****



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 **Date:** 04/02/2021

Project Name : Package-1, Includes 3 Works 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 30-01-21

Customer ID : Cement Concrete Pavement, (Bhajanemane Opposite Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	28/01/2021	04/02/2021	150.23 X	22634	8.284	582.6	25.7	25.7
					150.67 X					
					151.16					
2	Cement Concrete Pavement	M30	28/01/2021	04/02/2021	151.35 X	22733	8.943	605.3	26.6	
					150.20 X					
					151.04					
3	Cement Concrete Pavement	M30	28/01/2021	04/02/2021	151.50 X	22819	8.712	560.9	24.6	
					150.62 X					
					149.74					

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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****End of Report****



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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-11-18 **Date:** 25/02/2021

Project Name : Package-1, Includes 3 Works 1) Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/VO/133/2020-21

Date of Receipt : 30-01-21

Customer ID : Cement Concrete Pavement, (Bhajanemane Opposite Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	151.25 X	22819	8.693	768.4	33.7	33.2
					150.87 X					
					150.93					
2	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	149.06 X	22470	8.754	738.6	32.9	
					150.74 X					
					150.59					
3	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	150.74 X	22619	8.405	750.8	33.2	
					150.05 X					
					151.78					

* The results obtained are satisfactory as per standard requirements.

[Signature]
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 Kodigehalli Sub Division
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2021-02-11-18 Date: 09-01-21

Project Name : Package-1, Includes 3 Works , 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.

Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157

Customer Reference : BBMP/EE/BTP/WO/133/2020-21

Date of Receipt : 07-01-21

Type of Mix : GSB (Granular Sub Base)

Date of test : 07-01-21

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

[Signature]

Assistant Engineer
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End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

**TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011))**

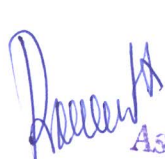
Lab ID : CP-RW-2021-02-11-18 Date: 11-01-21
Project Name : Package-1, Includes 3 Works , 1)Improvements of Roads and Drains at Maruthinagara and B B Nagara at Kodigehalli in Ward No 8. 2) Improvements of Roads and Drains at Gangabhavani Temple Surrounding Area Kodigehalli in Ward No 8. 3) Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.
Improvements of Roads and Drains And Construction of Community Hall at A K Colony at Kodigehalli in Ward No 8.
Agency : M/s SMLP Asphalts, Prop B.B Umesha, No:385, Bettahalasuru Post, Bangalore-562157
Customer Reference : BBMP/EE/BTP/WO/133/2020-21
Date of Receipt : 08-01-21
Type of Mix : GSB (Granular Sub Base)
Date of test : 08-01-21
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.


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End of Report

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